

McGill Daily

VOL. VI, NO. 51.

MONTREAL, WEDNESDAY, NOVEMBER 29, 1916.

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CAPT. JOHN COLLINS THE IDOL OF SIXTH

Famous Training Officer of the Universities Companies is a Versatile Man.

In days to come, when the sane ordered life of Peace replaces the present nightmare, there will be many an evening in home and club, over the camp-fires beside the trails and rivers given to recollections of the epic fascinating days of the Great Adventure. Among the men who have seen it through with the little red tabs of Princess Patricia's Canadian Light Infantry on their shoulders, one name will recur in many a story, all of which may not be authentic, but all of which reflect the personality of one of the most whimsical and delightful of men.

The "Originals" of that great unit are extremely proud of many things—they have the small numbers from 1 to 1700, instead of the long string of digits that now denote a soldier; they have their memories of St. Eloi and Second Ypres, and what General French said to them when they came out after the memorable 8th of May. But the Universities Companies have at least the boast that they have known Captain John Collins, and the knowing has been a memorable thing. For as the Companies have arrived in England, seething with undergraduate spirits, chuck to the brim with a tremendous amount of military fervor, they have been taken in hand, pleaded with, prayed with, cursed, exercised, remoulded, encouraged, and finally sent to France as men grown sensible to their work and sturdily ready for the doing of it. And that great gentleman, Captain Collins, has overseen each process and, as he will even sometimes admit himself, occasionally has looked upon his work and found it good.

At some time in the remote past, Captain Collins came out of Ireland, but the whence and the when of his coming are unknown to those that come under him. He has supervised the training of Patricia drafts since May, 1915, and gives himself unreservedly to each of them, only to be inexhaustively replenished when the next one arrives. No draft is ever mediocre, and just a transitory assemblage by whom he is merely doing his duty. As Captain Collins informs them at the flag end of many a dreary afternoon, they are quite the equal of any that have gone before, and at the same time they display a colossal stupidity that he finds to be unparalleled since Biblical times. There is no half-praise, half-blame; with an indescribable freshness of imagination and richness of synonym, he fills from encouragement to exhortation and back as easily as a pianist runs a scale. He convulses his squads with a terse and wonderful arrangement of some play-footed recruit who has erred once too often; he talks art, politics, and the possibility of salvation to them; he glows with impressionistic description and returns the next minute to reason with his class as with children. And through it all he forces home the ideas that matter, and gives even the rawest recruit a true grip of that queer, perverted thing that is known as "discipline." The description of Captain Collins is impossible. He will be remembered above all else for his anecdotes, and these would lose too much in the telling to be set down here. It is enough to say that those who have known him will always laugh in their hearts when they think of him holding forth to the rookies, body poised as Napoleon's, head slightly awry, mouth whimsical, and a slow definite forefinger punctuating his soft Irish speech. His quips and epigrams have been innumerable, and many of them will be classic while a man of the Universities Companies remains. He is a distinct personality, and if the right man ever puts him in a book, everyone that reads will know him. For the present he is like all the best of our race, "carrying on," playing out the game with all the singleness of purpose that comes only to the man whose heart is in his work. Capt. Collins is a fixture at the base, and every man of the Universities Companies hopes that he is there for the duration of the war.

NOW AT HEADQUARTERS.



LIEUT. J. B. MACPHAIL.

Lieut. Macphail, a graduate of McGill of the class of Arts '14, and a well known intercollegiate wrestler, is now attached to Headquarters of the Canadian Army Corps in France, after several months' service with the Engineers. He enlisted as a sapper in the First Canadian Division, and rose to his present rank through consistent good work. He writes that he has had dinner in France with his father, Capt. Andrew Macphail, Arts '88, Med. '91, now with No. 6 Canadian Field Ambulance.

M.A.A.A. DEFEAT MCGILL TEAM AT WATER POLO

Teamwork Deciding Factor in Game.

FISK STAR OF THE MATCH.

Henderson at Forward, and MacGregor in Goal, Best Men on McGill Team.

Last night the McGill water polo team went down to defeat before the M. A. A. A. team. Although beaten, they made their opponents go some to do it. The game was interesting right through, in view of the fact that no scoring was done during three of the periods. However, in the period that the scoring took place, M. A. A. A. made a rush for the game, and won then. Fisk and Binmore, who starred for the M. A. A. A. team, scored within a short time of the opening of the third period the only three goals of the game. Had it not been for the splendid showing of our goalie, MacGregor, the score might have been greater. Right through the entire game he prevented many shots from passing him. Henderson and Lally also played well for McGill.

The credit of the victory for M. A. A. A. is due to Fisk and Binmore, the stars of the game. Playing fast, right through, they made many charges and attempts at the McGill goal. In the third period they started up with such a rush that within several minutes the McGill team found some goals scored against them. Fisk scored within two minutes of the opening of the period, and Binmore followed with two goals shortly after. However, after this scoring McGill tightened down, and tried to force playing themselves, but were unable to score.

Although the spectators were few in number, it was a game worth while seeing. The ball travelled from one side, then to the other, and never could anybody be sure of the result of the game. A great feature of the M. A. A. A. is their team play, in which they are superior to the McGill men. The line-ups were as follows:

M.A.A.A. McGill.
Overton goal Lally
Miller Defence O'Brien
Burke Defence O'Brien
Fisk Forward Henderson
Binmore Forward L. Henry

TENNIS CLUB ANNUAL MEETING.

Members of the Tennis Club are reminded of the meeting to be held in Room B, Strathcona Hall, at 5.15 this afternoon.

This meeting is the important Annual Meeting for the election of officers for the ensuing year, and members can air their views on any matter they desire to bring up. Don't forget men, at 5.15, Room B, Strathcona Hall.

NOVELTY AT DELTA SIGMA.

All friends of the college, and students interested in the merry-making at the R. V. C. this afternoon, please remember that the meeting will begin at two o'clock.

Come punctually, for a slight tardiness on your part may mean that you will miss seeing certain remarkable characters who, rumor tells us, have selected this time for affording entertainment to the students. Probably the arrangements are not wholly unknown to many of the readers of this notice, but everyone should come and enjoy the fun, as well as the benefit of a little recreation from studies.

DEAN ADAMS SPEAKS TO CHINESE Y. M. C. A.

Interesting Address on "Christianity, Canada, China," by Head of Science Faculty.

"Christianity, Canada, China," was the three-fold subject of an interesting address delivered Sunday by Dean Adams, of the Faculty of Applied Science to the 150 members of the Chinese Y. M. C. A. Dr. Adams said in part:

"Nicolo Polo was the first European to visit China 650 years ago. Each way his trip occupied three and a half years, whereas now it is accomplished in one month, and a cable travels there in a minute. Kublai Khan, who was Emperor at that time, received him with great pomp and splendour, and entertained him for a year, sending him back with the request that he return soon not only with much Western merchandise, but also with 100 missionaries. In a few years Polo did return with his son, who remained at the Chinese court for seventeen years, writing of the life, manners and wealth of the people with such reality and vividness that the book was quite discredited when read by his own countrymen. Yet by its perusal, it is said, Columbus' credulity was aroused, and in his effort to shorten the voyage there, came by the Atlantic and discovered America.

Through the agency of steamers and cables, China had recently been brought very near to the rest of the world, and it was this fact that made it imperative that Canada and every country should study and understand China.

"We are now passing through the greatest war in the history of mankind. The crucial question at stake is—shall the whole world be dominated by one power, or will every nation be left to develop along her own lines in commerce, education, politics, art, etc.? If the Allies are crushed in this crisis, China's future, too, will be ultimately affected.

"We speak of Europe and America as having developed under the influence of Christianity. What does this mean? In essence, this means that we know God as our Father, that we are His children, and that every man should do as he would be done by. Christianity has done much for us. No more slaves are bought or sold like cattle. All are free! The poorer classes are given better conditions of life, and are made equals so far as possible. Free hospitals, asylums, and philanthropic societies are on every side.

"A Chinese engineer graduated from McGill last year, Mr. G. Y. K. Shem, and returned to his own country to build canals and railroads for transporting country products to the cities, and to assist in solving the gigantic problem of walling back their destructive floods. China should have a knowledge of God and His ways of freedom, justice and charity, that she may be an especially strong and steadfast people, thoroughly prepared for her great future.

"Do not judge Christianity by the many evidences of sin about you in Canada. We are still very imperfect, but all the virtues we do possess come from the teachings of Christ. The mind of the Easterner is especially susceptible to Christian teachings, and I confidently look forward to the day when Christianity will be developed in China into its purest form, and returned to us in a renewed power that shall be world-wide in its uplifting influence."

IS MCGILL WILLING
TO RANK SECOND TO
TORONTO 'VARSITY?

At the University of Toronto, the college dining hall is serving 900 meals a day. Compared with the patronage which is being accorded the Union dining hall at McGill, we are entitled to a good second place. McGill has never taken second place to Varsity without a fight for first place. It is up to the present student body to show to the men who have gone before that the same old fight is still left in McGill. MAKE IT THREE HUNDRED MEALS A DAY AT LEAST!

WHAT'S ON

TO-DAY.
2.00 p.m.—Delta Sigma Society Meeting.
5.00 p.m.—R. V. C. Basketball.
5.15 p.m.—Tennis Club Meeting at Strathcona Hall.
6.15 p.m.—Arts '18 Dinner, at the Union.
8.15 p.m.—Philosophical Society Meeting.
8.15 p.m.—Historical Club Meeting.
8.15 p.m.—Union House Committee.

COMING.
Nov. 30th—Athletic Association Meeting.
Nov. 30th—American Club Banquet.
Dec. 1st—Physical Society Meeting.
Dec. 1st—Electrical Club Meeting.
Dec. 1st—Nominations close for Students' Council Representatives.
Dec. 15th—Union, Informal Dance.

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ANOTHER TABLE FOR WOMEN AT LIBRARY

Congestion Caused by Number of Women Students Will Now Be Much Relieved.

It has been found necessary to provide additional table accommodation for women in the Reading Room of the University Library; and accordingly a fourth table—namely, the one next beyond those now used by ladies—has been allotted for this purpose. Notice to this effect has been placed on the table in question, and men are requested not to make use of this table until further notice.

The women students of the first and second years have it in their power to contribute to the effective working of the University Library if they avail themselves, as far as possible, of the books in the College Library. If they will kindly do this, they will leave the more room for senior students who are obliged to use the University Library; and, since most of the literature required in the first and second years is accessible in the College Library, it is felt that the course above recommended can be followed without hardship to anyone.

Owing to the absence at the front of many of our men, there will, unfortunately, be ample table space for men, even though they be deprived of one table which has previously been at their disposal. It is confidently expected that they will bear in mind the slight change in arrangement, which has been noted above, and will help to make it promptly and quietly operative.

ARTS '18 DINNER TO-NIGHT.

All the members of Arts '18 are hereby requested to be at the Union at 6 p.m. to-day. Dinner starts at 6.10 p.m., and the class will adjourn at 7.45 o sharp.

DESK-CARVING ALLEGED.

Complaint is made of the cutting of desks in the class rooms of the Arts Building, and especially in rooms 115 and 107. As this constitutes a serious offence in the eyes of the Dean's office, warning is given that the practice must cease or students implicated.

DR. HERDT TO SPEAK BEFORE ELECTRICALS

"The Artificial Preparation of Nitrates—An Example of German Preparedness," is Subject.

Dr. L. A. Herdt has consented to deliver a lecture to the Electrical Club on "The Artificial Preparation of Nitrates—An Example of German Preparedness."

Dr. Herdt visited many of the plants in Norway carrying on this industry when they commenced operation, and consequently he knows his subject from actual experience. He has also followed up the subject by a study of all the recent articles published, and his paper promises to be a most interesting and instructive one.

All Third and Fourth Year Electricals, and any other men who are interested, are invited to attend. The subject should be of particular interest to the Chemicals.

Dr. Herdt will address the Club on Friday evening at 8 p.m. in Room 54 of the Engineering Building, and the executive hope that there will be a good turnout to hear this paper.

TO-DAY'S MENU AT THE UNION.

Soupe—Ox Tail a l'Anglais; Cream of Chicken.

Fish—Broiled White Fish au Burre Noir; Fried Ontario Trout Tartar.

Entrées—Grilled Beef Tenderloin au Jus; Veal and Ham Croquettes Bechamel; Boiled Chicken Hollandaise Sauce; Broiled Venison Cutlet a la Creole; Fried Sausages with Mashed Potatoes; Cold Roast Pork with Vegetable Salad.

Eggs to Order—Plain ham or cheese Omelet.

Roasts—Prime Ribs of Beef au Jus; Leg of Veal with Dressing; Leg of Lamb with Mint Sauce.

Vegetables—Boiled or Mashed Potatoes; Mashed Turnips.

Desserts—Raisin Pie; Baked Apple Pudding with Madeira Sauce.

PHILOSOPHICAL SOCIETY.

There will be a regular meeting of the Philosophical Society this evening, in Room B, Strathcona Hall, at 8.15 p.m. sharp. Prof. Hickson will deliver a short address on "Pessimism with Special Reference to Schopenhauer." There will also be a few items of business to dispose of. All members of the society are urged to

SCIENCE GRADUATE DIES OF WOUNDS

Capt. Popham, Science '10, Fatally Wounded During Recent Engagements on the Somme.

Prof. E. Brown, of the Faculty of Applied Science, has received word of the recent death from wounds of Captain John Francis Watson Popham, a graduate of the Faculty of Science of the class of '10, who was serving with one of the battalions of the Leicestershire Regiment in France as adjutant. Captain Popham died of his wounds at Lyons.

Capt. Popham was employed by the Canadian Pacific Railway after graduation, and when war broke out crossed to England and enlisted as a trooper in King Edward's Horse, the famous British cavalry unit composed largely of Colonials resident in the United Kingdom. In January, 1915, he took out his commission in the Leicestershire, and went to France in the following October, being steadily promoted for his good work in the field. He was wounded in the operations on the Somme.

ARTS '18 PHOTOGRAPHS ARE TO BE DONE NEXT

Pictures Must Be Taken by Saturday—Co-operation of all Juniors Asked For.

The photographing for the next "Annual" is now going on at Gordon's, 411 St. Catherine Street, and at the present time the members of the Class of Science '18 are supposed to have had their pictures taken. Some have not appeared yet, but these are given until Thursday evening to be photographed. Any Science Juniors who, after next Thursday evening, have not gone down for a sitting, will probably not have their pictures in the "Annual" at all.

The next class to go down to Gordon's is that of Arts '18, and all members are requested to have the photos taken by Saturday evening at the latest.

To facilitate the work of the Board, and of the photographer as well, all Juniors are appealed to go down to Gordon's at the time specified. Only such co-operation of the Third Year men can make this next Annual a real success. It is just as easy for a man to go down to-day as it is for him to do so a week from to-day.

VISIT FOREST PRODUCTS LAB.

The members of the Railway and Mechanical Club will pay a visit to the Forest Products Laboratories, University street, on Saturday afternoon.

R. V. C. BASKETBALL.

This afternoon, at five o'clock sharp, two more matches in the Inter-year Basketball series will be played off. The Seniors will play the Freshies, and the Juniors will play the Sophomores. After another week's practice all teams are in better form than ever, and it is expected that the games to-day will be keenly exciting.

The line-ups are as follows:—

Seniors: Forwards, F. Kilgour and J. Kline; guards, D. Hicks, and W. Wyatt; Centre, M. Spier; Wings, E. Jackson, M. Newnham.

Juniors: Forwards, E. Hay, and R. Goodwin; Guards, L. Fowler and G. Gardner; Centre, C. Hay; Wings, B. Forde and I. Patterson.

Sophomores: Forwards, E. Abbott, L. Macdonald; Guards, F. Grindley, B. Rogers; Centre, G. Craig; Wings, R. Salomon and F. MacLaren.

Freshies: Forwards, J. McCulloch, E. Ross; Guards, K. Milligan and H. Nichol; Centre, G. Moody; Wings, H. Davidson and H. Graham.



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Tobacco requires a large amount of care throughout its growth. Constant shallow cultivation is practised after the tobacco plants are set out until they have reached a size where further cultivation would damage the leaves and injure the roots. The plant, in its early stages is liable to injury from the attacks of the tobacco-worm and other parasites which commit great devastation in the crops. To prevent the leading stem from running up too quickly to flower and seed, and so starving the leaves, the top is nipped off with the thumb nail, leaving only nine or twelve leaves on each stem. Later on the suckers or shoots which now make their appearance at the junction of the leaves and about the roots of the plants, are removed. Tobacco is also subject to "firing," a kind of blight causing much injury to the crops. The planter must, therefore, protect his crop against all these possible injuries by proper spraying and cultivating.

All of these different operations take time and cost money, but the increased price which the planter receives for his crop warrants the expenditure and care. Nothing but tobacco cultivated as above enters into the making of

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Mr. President and Gentlemen—
I am glad to meet you, the members of this Society; to meet for the first time the Juniors among you, and the Seniors among you to meet again. I have always felt a great interest in this Undergraduate Society—the Society which is really the one product, the single expression of your undergraduate life. A good thing or a poor thing it may be, but it is your own. I am pleased to-night to see that your Society is a good thing in that it is so well represented. You have this year a large membership I am told, and this is due, as it always is due in any society, to the energy and devotion of your officers. To the President and your secretary, and last but not least, to the treasurer. You are specially fortunate, too, this year, in your Honorary President. And so it seems to me that this year of 1916-1917, and despite the many disadvantages under which we all at this time labour, will be a satisfactory and a profitable year.

It is especially gratifying to me to see so many new faces, to see the Junior year so well represented. I take it for granted that those of you who are seated in the humbler places in this synagogue, namely on the back benches, belong to the Junior Years. And this is after all as it should be, for in due time the least among you shall become the greatest. I can assure you, Juniors, that in your attendance upon this Society, each one of you will find it for the present and for the future, good to be here. So let it be said of you, the years 1920-1921, that there are very few of you but what are active and regular members of this Society.

Even for the Freshman, the First Year man, this Society should be an extra subject in his curriculum. It is an honourable subject that each man should take, for it is the one academic common meeting place of his undergraduate life. Here appear before us the five successive years, the five ages if you will, of the Medical Society. We reach here in an academic sense from the smallest Freshman to the largest Senior—from the infant mewling and puking in the nurse's arms to the lean, enervated, admiring, and respect for the big Senior in the Fifth Year, who is forward in the congregation and who is heard frequently in debate? And we of the Freshman Class certainly do not forget the gentlemen of the Second Year, with their special instance of preparedness. And that sad morning not so long ago when taken unaware there was performed a strange thing in an ice-warehouse. A sad instance this of a want of organization, of Freshman unpreparedness. But, by the way, I am sorry for the Freshmen of next year.

My subject to-night is rather a wide and comprehensive one. One may speak of almost anything in Medicine. I have purposely made this so, for my object this evening is not a set and formal address, but rather a friendly and intimate conversation. Rather is it to be a talk among students of Medicine, for here in this Society I have thanks to say, there is no Professoriate. A talk among students of Medicine then, and it is the oldest one among you, alas, who is to do most of the talking.

We shall accordingly talk together of the Principles, the Precept, and the Practice of Medicine.

1.—The Principles of Medicine.

As regards these Principles I shall enunciate merely two.

(1) The Unity, or the oneness, of the study of Medicine. And since all Medicine is, or ought to be, a study, this includes the unity, or oneness, of Medicine itself.

(2) The Experimental Method, the Heuristic Method of Work. This, as you know, means the doing of one's work for oneself. The Greek word eurikos means "discover." And so the Heuristic Method means a discovering, a self-discovering, method. In this way each man works out the thing for himself.

So I enunciate these two principles. And at first I think I cannot do better than to quote the general suggestions given by Professor Lloyd on the first page of his Syllabus. You may remember them.

"The following outlines consist of a series of experiments and observations to be made by the student. The exercises are not isolated, but interdependent. They are seldom, if ever, mutually exclusive. To a very large extent, they must be done in the sequence given, since the results of one constitute the premises of the next. A grasp of each exercise is therefore necessary in undertaking a succeeding one."

You will see that Professor Lloyd has incorporated in these directions the two principles which I have enunciated. In his own subject there is unity, a sequence, and the method of work is the experimental method inasmuch as the experiments and observations are to be made by the student himself. And just here I may add another paragraph from his directions, and it is this:—

"Power of thinking cannot be gained vicariously—do your work yourself. Good work cannot be done hurriedly or blindly. Read carefully each part of your outline before starting to work."

I shall take the liberty of differing from Professor Lloyd in the question of style. I take it for granted that you are able to read and write, that you can spell words or less correctly, and that each sentence has a subject, and somewhere in its interior a verb or predicate. Having acquired these preliminaries somewhat earlier in your training, I will merely quote to you as regards style, or manner of expression, the words of Samuel Butler.

"A man may, and ought to take a great deal of pains to write clearly, tersely and euphemistically; he will write many a sentence three or four times over—to do much more than this is worse than not re-writing at all. He will be at great pains to see that he does not repeat himself, to arrange his matter in the way that shall best enable the reader to master it, to cut out superfluous words, and even more, to eschew irrelevant matter; but in each case he will be thinking not of his own style, but of his reader's convenience."

My first Principle, as I have said, is the unity, or oneness, of the study of Medicine. The study of Medicine means simply the study of life—from life from its simplest and lowest forms upward through its various and successive phases to man himself. Man himself we study specially, his birth, his growth, his function, and his decline and death. It is, of course, with man that the practice of Medicine chiefly concerns itself, but in order to understand man in his various workings, we must know something of what has preceded him, his forebears, his family-tree. And so the Medical Curriculum tells us something of this genealogy.

I wish to remind you that the Medical Curriculum, though it bristles with long and difficult names—the confines of separate subjects—has no separate subjects at all; it is simply one and the same thing, for it deals simply with the Evolution of Life itself. From the primitive forms of life which we learn in botany and zoology, we proceed, through forms more complex, in Comparative Anatomy, steadily upward till we reach the chief of them all—man himself. Now, all this way is taken in order that we may understand this special individual. And this individual, this man or this woman, we study specially. We investigate his coarse framework and call it anatomy. His fine tissues we designate histology. The function of his structure and his organs, the work these do and contribute, each one serving, borrowing and lending from the other, we know as physiology or institutes of medicine. Phenomena of metabolism, of nutrition, of repair and waste, the processes of circulation, respiration, or digestion and secretion, is physiology on its chemical side—physiological chemistry.

And then, chief though he be, man this being even as woman is full of maiden bacteriology, tells us of this, the cause and the nature, the process and the result, of disease. We are led by small potatoes and few in the hill, and there come of necessity ill-health, old age and disease. Where there is life there must of necessity be decay and death. Pathology, with its hand to see the healthy organ undergo progressive change, gradually loses its special function, and in organismal disease, are brought to realize that in man himself, even as throughout the whole animal kingdom, one kind feeds upon and devours its fellow. So it is that in typhoid fever or pneumonia the myriad host of uni-cellular wolves fasten upon us to pull us down. Pharmacology, based upon chemistry, is only the name of the reaction of the organism in whole or in part to certain mineral or vegetable simples; and therapeutics is merely the scientific exhibition of these in disease. The art of the business must now be learned—craftsmanship—the physical signs of disease. And lastly there comes the coping-stone of the curriculum, treatment. Treatment, medical, surgical, hygienic.

As you will see, and so consider, the Medical Curriculum stands together as a single unit, as a whole. It is a single edifice, and not a collection of separate dwelling-places. The student is apt at first not to realize this, for he begins one subject, he enters it, and he abides there. He presently emerges, more or less damaged and befogged by his residence therein, only to plunge into another; this second is separate and detached as the first. The broad nexus between these subjects he fails to see. His knowledge, his information, rather, if it can be called such, is held in more or less watertight compartments. So from one subject to another he goes, forgetting the one as he enters the next, a regular house-to-house visitation, while he fails entirely to realize the broad thoroughfare which connects these houses, and along which he is supposed to be travelling. To such a one the study of medicine is of necessity dull and uninteresting; failing to observe and appreciate the unity of the work, some subjects are a bore and a drag and of little interest.

The student of Medicine can only work to advantage if he secures early in his career such a unified conception. Let the youngest Freshman here remember that in Elodea he meets for the first time—vegetable life. And that this cell, large though it be, should stand for his picture of a cell, its cell-wall, its nucleus, its picture of

a cell for the rest of his life. He studies again the cell in yeasts and in the fungi; its mode of nutrition, and its method of propagating itself. Gradually these cells are added to one another in the higher plants. Gathered are they into definite structure, and with a differentiation of function.

In Zoology we cross into the animal kingdom, cross that line which divides the vegetable from the animal, that vague line which it is so difficult—really impossible—to draw; for, if the food is fluid only it is a vegetable, whereas if solid particles are digested it is an animal. This rule, which has so many exceptions, is after all no strict division. The unity of the study is exemplified by this. In Zoology who can forget the Amoeba as the simplest Protozoa of the animal kingdom—as the starting-point from which we ascend by successive steps upward in the animal kingdom. Upward past the fish, the frog, of undying fame, Ornithorynchus, the bird, the reptile, to the great mammal Man himself.

So the Freshman makes the acquaintance of the cell microscope—the long eye. He draws it, pictures it, carries its image in his mind and for ever next his heart. The higher forms of life are simply aggregations of these cells. Knowing one, he knows them all in their various sizes and shapes and their various aggregations. Knowing a cork cell or a starch cell he will come in time to know a liver or a blood cell in the great Mammalia. And with this foresight and foreknowledge, his far-seeing vision, the work that he does gains added interest and importance. He can see, as it were, the trail ahead of him, the trail of his Medical Curriculum, blazed here and there, the names of the many subjects, but these are merely the sign-posts, that show him the way.

So, through the several years of his Curriculum the continuous thread, the web and woof runs. The Freshman looks forward toward the summit of his Curriculum, and it is well I think, that from this summit the Fifth Year man should continually look back. The Senior student can most thoroughly, most completely, realize the unity of the Curriculum. He has travelled the full undergraduate distance, awake or asleep as may be, and he can look backward upon it all. I would make it a rule that each student beginning a new year's work should spend his first week in reviewing the work of previous years. So could the work of the several years be knit together in his mind, be unified. So should it be driven in or him that in Medicine it is one thing that he studies. And that one thing is life.

(2) The method of his work: first to last must be the experimental the Heuristic Method. Here must be things for himself. This method is the basis of all right or true education. Each man proceeds more or less rapidly as the case may be, from the known to the unknown. And if he is to proceed at all the procession must be his own.

The best description, perhaps, of this experimental method of work was delivered some three years ago by Professor Richard M. Pearce, of Philadelphia, who pointed out the importance of this method in the everyday work of the teacher and student. The whole substance of this address may be summed up in Samuel Butler's phrase, "Don't learn to do—but learn in doing." For it is only in this way of doing that a student can develop power—can truly learn. All teachers must take heed lest their very teaching does not do harm, does not conspire toward intellectual death.

And now how are we, the students here, to apply this experimental, this heuristic method in our work? We are simply to do things for ourselves, to train our special senses by using them.

For example, there is only one way to learn of the examination of the urine, and that is, to examine it and to keep on examining it ourselves; to acquire from a good teacher a good method of examination, a good, careful, accurate, and systematic method, and by practice to accustom ourselves to its use. No reading from a text will supply this knowledge.

This method of work obtains clearly enough in all laboratory work; in chemistry, anatomy, physiology, and pathology. To an equal degree it must clearly obtain in all our clinical work. Take again an example of the examination of the chest. The teacher gives

(Continued on Page 2.)

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